

ABSTRACT OF THE DISCLOSURE

A system for detecting fluids in a microfluidic component having at least one microchannel including a limitation wall which has two surfaces which, facing the microchannel in a transparent area, are inclined towards each other at an acute angle, with the system further including a photo transmitter and a photo receiver which are disposed outside the component and are directed to the inclined surfaces in the transparent area of the limitation wall in such a way that if a gas is waiting in the microchannel on the two surfaces, a light ray emitted by the photo transmitter impinges on the photo receiver following a total reflection on the two surfaces and, if a liquid is waiting in the microchannel, the light ray enters the microchannel on at least one of the two surfaces and, as a result, the incidence of light into the photo receiver is reduced or prohibited.